## ISSUE SLIP STAPLE AREÁ (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE      |  |  |  |  |  |
|---------------------------|----------|--------|-----------|--|--|--|--|--|
|                           | £. V-    |        |           |  |  |  |  |  |
| FEE DETERMINATION         | 215      |        | 12/24/17  |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          |        | 11/7/00   |  |  |  |  |  |
| FORMALITY REVIEW          | Kt       | 10029  | 1 (28/00) |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |        | ···       |  |  |  |  |  |
|                           |          |        |           |  |  |  |  |  |

## INDEX OF CLAIMS

| Rejected                                       | N Non-elected |
|--|---------------|
| = Allowed                                      | IInterference |
| <ul> <li>(Through numeral) Canceled</li> </ul> | A Appeal      |
| ÷ Restricted                                   | O Objected    |

|          | ÷          |          |          |            |            |            |          |  |          |          |  |     |               |          |          |           |          |          |          |                |          |          |          |          |     |               |          |  |                   |          |          |          |                 |          |                    |  |
|----------|------------|----------|----------|------------|------------|------------|----------|--|----------|----------|--|-----|---------------|----------|----------|-----------|----------|----------|----------|----------------|----------|----------|----------|----------|-----|---------------|----------|--|-------------------|----------|----------|----------|-----------------|----------|--------------------|--|
| C        | Claim Date |          |          |            |            |            |          |  |          | ] ,      | Claim Date                                       |     |               |          |          |           |          |          |          |                | Cla      | im       | _        |          | _   | Date          |          |  |                   |          |          |          |                 |          |                    |  |
|          | Original   | -4-1-43  | 1860     | 21319>     | 0.00       |            |          |  |          |          |  |     | Final         | Original |          |           |          |          |          |                |          |          |          |          |     | Final         | Original |  |                   |          |          |          |                 |          |                    |  |
| ۲        | Ü          | j        | 12       | 19         | ₩          | <b>b</b> _ | ╁        | ┝  | -        | ├        | ├  |     |               | 51       | -        | -         |          | -        |          | Н              | $\dashv$ | _        | Н        | $\dashv$ |     |               | 101      | ┝                                      | $\vdash$          | -        | Н        | $\vdash$ |                 | $\vdash$ | $\vdash$           | -                                      |
| H        | 2          | П        | ľ        | V          | V          | ┪          | t        |  |          | ┢        | H  | 1   |               | 52       | 寸        | T         |          |          |          | $\neg$         |          |          | П        |          |     |               | 102      | 1                                      | ✝                 |          | Н        | П        |                 |          | Н                  | H                                      |
| T        | 43         | H        |          | Г          | Ť          |            | Г        | Т  | Г        | $\vdash$ | Γ  | ĺ   |               | 53       | $\neg$   |           |          |          |          |                |          |          | П        |          |     |               | 103      | Г                                      | Г                 |          | П        | П        | П               | $\Box$   |                    | H                                      |
|          | 4          | H        | 1        | V          | V          | 1          | ✝        | <del>                                     </del> |          | T        | ✝  |     | $\Box$        | 54       | $\neg$   | $\neg$    |          |          | _        |                |          |          | П        |          | 1   |               | 104      | $\vdash$                               | _                 |          | Н        |          |                 | 一十       | $\sqcap$           | -                                      |
| Г        | . 5        | П        | V        | V          | V          | 1          | Π        |  | П        |          |  | 1   |               | 55       | П        |           |          |          |          |                |          |          |          |          |     |               | 105      | Г                                      |                   |          | П        |          | П               | П        | $\Box$             | $\overline{}$                          |
|          | (6)        | V        | 1        | V          | V          |            |          |  |          |          |  |     |               | 56       |          |           |          | -        |          |                |          |          |          |          |     |               | 106      |  |                   |          |          |          |                 |          | $\Box$             |  |
|          | ۲: ا       |          | 1        | V          | V          | _          | 匚        |  |          |          |  |     |               | 57       |          |           |          |          |          |                |          |          |          |          |     |               | 107      |  |                   |          |          |          |                 |          |                    |  |
|          | -8         | Н        | V        |            |            | <u> </u>   | 乚        |  | _        | L        | L  |     | $\overline{}$ | 58       | _        | _         | _        |          |          | Ш              |          |          | Ш        | 凵        |     | _             | 108      | 匚                                      | L                 | Ш        | Ш        |          |                 | $\Box$   |                    |  |
| نيا      | 9          | Ц        |          | ١٧         | V          |            | <u> </u> |  | _        | L        | <u> </u>   |     |               | 59       | 4        | 4         | _        | _        | _        |                |          | _        |          | _        | - 1 |               | 109      | L.                                     | _                 |          | Ш        |          |                 | Ц        |                    | L                                      |
| į        | 10         | Ц        | ~        | γ          | $  \vee  $ | 1_         | ╙        |  | L        | L        | ᄂ  |     |               | 60       | _        | 4         | _        | _        |          |                | _        |          |          | _        |     |               | 110      | L                                      | <u> </u>          | Ш        | Ш        | Ш        | Ш               | Ш        | Ш                  | L                                      |
| 빋        | ¥          | 1        | ~        | *          | $\vee$     | 1_         | ↓_       | L  | ldash    | _        | ļ  |     |               | 61       | _        | _         | _        | _        | _        |                | _        |          | Ц        | _        |     | _             | 111      | <u> </u>                               | Ŀ                 | Ш        | Ш        | $\dashv$ | Ш               | Ш        |                    | _                                      |
| 1        | 12         | #        | 2        | r          | 1          | 1_         | $\vdash$ |  | L        | <u> </u> | <b> </b>   |     |               | 52       | 4        | 4         | 4        | _        | L        | Ц              | 4        | 4        | $\Box$   | _        |     |               | 112      | <u> </u>                               | $\vdash$          | Н        | Н        | Н        | $\vdash \vdash$ | $\dashv$ | Н                  | _                                      |
| H        | +8         | H        |          | <u>.,</u>  | Ļ          |            | $\vdash$ | _  | $\vdash$ | <u> </u> | <u> </u>   |     | _             | 63       | 4        | 4         | 4        | 4        |          | Н              |          | _        | Ц        | $\dashv$ | }   | _             | 113      | -                                      | $\vdash$          | Н        | Н        | -        | $\vdash \vdash$ | -        | Н                  | <u> </u>                               |
| $\vdash$ | 14         | H        | سن       | V          | V          |            | ┞-       | Н  | Н        | -        | $\vdash$   |     | _             | 64       | $\dashv$ | -         | -        | _        | Н        |                | $\dashv$ | $\dashv$ | $\dashv$ | -        | }   |               | 114      | $\vdash$                               | $\vdash$          | Н        | Н        | $\dashv$ | $\vdash$        | $\dashv$ | Н                  | $\vdash$                               |
| ┢        | 15         | V        |          | V          | V          | 1          | ⊢        | Н  |          | ┡        | H  |     |               | 65<br>66 | $\dashv$ | -         | $\dashv$ | -        | _        |                | $\dashv$ |          |          | $\dashv$ | - } |               | 116      | Н                                      | $\vdash$          | Н        | $\dashv$ |          | Н               | $\dashv$ | $\dashv$           | H                                      |
| L        | 16<br>17   | ŀ        | H        | $\vdash$   | ┝          | ├-         | ⊢        | Н  | _        | ⊢        | ⊢  |     |               | 57       | -+       | ┪         | ╌┤       |          | -        |                | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | ł   |               | 117      | Н                                      | -                 | Н        | -        | $\dashv$ | $\vdash$        | $\dashv$ | $\vdash$           | H                                      |
| H        | 18         | H        |          | -          | ├          | -          | ├        |  | -        | H        | ┝  |     |               | 58       | +        | ┥         | ┥        |          | _        | $\dashv$       | -        |          | -        | ⊣        | ł   |               | 118      | -                                      | Н                 | Н        | $\dashv$ | $\dashv$ | $\vdash$        | $\dashv$ | Н                  | H                                      |
| <u>-</u> | 19         | H        | H        | ┝╌         | ┝          | ├          | ⊢        | Н  | Н        | -        | ⊢  |     |               | 59       | +        | -         | -        |          | -        |                | $\dashv$ | ┥        | -        | $\dashv$ | Ì   | _             | 119      | $\vdash$                               | Н                 | Н        | $\vdash$ | $\dashv$ | $\vdash$        |          | Н                  | H                                      |
| 1        | 20         | $\vdash$ | ⊢        | -          | _          | ├          |          | Н  |          | -        | ⊢  |     |               | 70       | +        |           | ┪        | $\dashv$ | $\dashv$ | $\dashv$       | +        | ┥        | -        | ⊣        | }   | $\rightarrow$ | 20       |  | Н                 | Н        | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$ | Н                  | <del> </del>                           |
| F        | _          | _        | Н        | L          | L          | $\vdash$   | <u> </u> | Ш  |          | _        | ┡  |     |               | _        | $\dashv$ | -         |          | $\dashv$ | -        | <del>- i</del> |          | ᅱ        | -        | ⊣        | }   |               | 121      | -                                      | Н                 | Н        | $\dashv$ | ᅱ        | $\dashv$        | $\dashv$ | $\vdash$           | H                                      |
| ۲        | 21         | _        | H        | L          | <u> </u>   | -          |          | Н  |          | _        | ├-   |     |               | 71<br>72 | -+       | -         | ┩        |          | -        | $\dashv$       |          | -        | -        |          | }   | _             | 122      | ┝                                      | Н                 | Н        |          | -        | $\dashv$        | $\dashv$ | $\vdash$           | H                                      |
| <u>-</u> | 23         | _        | Н        |            | -          | ├          | <u> </u> | Н  | Н        | _        | ⊢  |     |               | 73       | +        | $\dashv$  | ┥        | ┥        |          |                | -+       | -        | -        | $\dashv$ | }   |               | 123      | $\vdash$                               | $\vdash$ $\dashv$ | Н        | -        | $\dashv$ | $\dashv$        | $\dashv$ | $\dashv$           |  |
| ⊢        | 24         | _        | Н        | H          | H          | $\vdash$   | $\vdash$ | H  |          | -        | ├  |     |               | 74       | $\dashv$ | ┥         | $\dashv$ | ┥        |          | -              | $\dashv$ | -        | -        | ᅱ        | ŀ   |               | 124      | Н                                      | Н                 | Н        |          | $\dashv$ | $\dashv$        | -        | $\dashv$           | Н                                      |
| ⊢        | 25         |          | -        | H          | -          | ├          | -        | Н  | Н        | H        | <del> </del>                                     |     |               | 75       | +        | +         | $\dashv$ | -        |          | +              | $\dashv$ | -        | -        | $\dashv$ | ŀ   | _             | 125      |  | Н                 | Н        | -        | $\dashv$ | $\dashv$        |          | $\dashv$           | Н                                      |
| ⊢        | 26         | _        | Н        | Н          | -          | ├-         | ├        | Н  | Н        | ┝        | ┝  |     |               | 76       | -+       | -+        | -        | $\dashv$ | -        | ┥              | $\dashv$ | ᅱ        | -        | $\dashv$ | ŀ   | _             | 126      | Н                                      | Н                 | Н        | -        | $\dashv$ | 一               |          | $\neg$             | -                                      |
| ī        | 27         | -        | $\vdash$ | H          | ⊢          | ⊢          | ⊢        | Н  | H        | ┝        | ⊢  |     |               | 77       | -+       | +         | -1       | -        | $\dashv$ | $\dashv$       | $\dashv$ | -        | $\dashv$ | ᅱ        | H   |               | 127      | Н                                      | Н                 | H        |          | $\dashv$ | $\dashv$        | -        | $\vdash$           | -                                      |
| ۲        | 28         | -        | Н        | -          | ┝          | ╁╾         | ⊢        | -  |          | ⊢        | -  |     |               | 78       | $\dashv$ | ┥         | $\dashv$ |          |          | -              | -        | -        | $\dashv$ | $\dashv$ | ı   |               | 128      | Н                                      | ┝                 | Н        | Н        | $\dashv$ | $\vdash$        | $\dashv$ | Н                  | ┢                                      |
| ۶        | 29         |          | Н        | ⊢          | ┝          | ├          | ╀─       | -  | -        | -        | -  |     |               | 79       | +        | -         | $\dashv$ | $\dashv$ | -        | -              | -        | $\dashv$ | $\dashv$ | $\dashv$ | 1   |               | 129      | ┢                                      | ⊢                 | H        | Н        | $\dashv$ | П               | ╗        | П                  | H                                      |
| ŀ        | 30         | ⊢        | -        | -          | $\vdash$   | ╁          | ╁        | H  | $\vdash$ | ┝        | ├  |     |               | 80       | ╅        | -         | ┪        | $\dashv$ |          |                | -        | -        | -        | ᅱ        | Ì   |               | 130      |  |                   | Н        | Н        | $\neg$   | М               | $\vdash$ | П                  | _                                      |
| $\vdash$ | 31         | H        | ┢        |            | H          | $\vdash$   | ⊢        |  | -        | $\vdash$ | ╌  |     |               | 81       | -+       | -         | ┪        |          | _        | $\neg$         | -        | -        | Н        |          |     | _             | 131      | ┢                                      | Н                 | -        |          | $\neg$   | П               | П        | П                  | _                                      |
| ۲        | 32         | H        | H        | -          | H          | $\vdash$   | ┪        | $\vdash$   | -        | -        | ⊢  |     | _             | 82       | _        | $\dashv$  | _        | $\dashv$ |          | $\dashv$       | _        |          | Н        | $\dashv$ |     |               | 132      | ┢                                      | 一                 |          | П        |          |                 | П        | П                  | _                                      |
| ۲        | 33         | H        | -        | -          | H          | $\vdash$   | $\vdash$ | -  |          |          | ┢  |     |               | 83       | 十        | $\exists$ | $\neg$   | $\neg$   | Н        | -              |          | ┪        | Н        | $\dashv$ | ļ   |               | 133      | ┢                                      | Т                 |          |          | П        | П               | $\Box$   |                    | -                                      |
| $\vdash$ | 34         | Т        | Г        | -          | Н          | $\vdash$   | $\vdash$ | Н  | Н        | T        | -  |     |               | 84       | $\dashv$ | ┪         | $\dashv$ |          |          | Н              |          | ᅱ        | Н        | 7        | -   |               | 134      | ţ                                      |                   | П        | П        |          | $\Box$          |          |                    |  |
| Г        | 35         | _        | 1        |            | Т          |            | T        | Г  |          | -        | <del>                                     </del> | 1   | _             | 85       | 7        | ᅥ         | ᅥ        |          | П        | Н              | $\neg$   |          | П        | ᅥ        | ı   |               | 135      |  | Г                 | Г        |          |          |                 |          |                    |  |
| Γ        | 36         | Г        |          | Г          |            | Τ          | Τ        | Г  |          | Г        |  | 1   |               | 86       |          | $\neg$    | $\neg$   | П        |          |                |          | П        |          |          |     |               | 136      |  |                   |          |          |          |                 |          |                    | L                                      |
| Г        | 37         |          |          |            |            | Т          | Ι-       |  |          | Г        |  | 1   |               | 87       |          | ٦         |          |          |          |                |          |          |          |          |     |               | 137      |  | $\Box$            |          |          |          |                 | Ц        | Ш                  | L                                      |
|          | 38         |          |          |            |            |            |          |  |          |          |  |     |               | 88       |          |           |          |          |          |                |          |          |          |          | i   |               | 138      |  |                   |          |          | $\sqcup$ | Ш               | Ц        | Ц                  | Ļ                                      |
|          | 39         |          |          | ${f \Box}$ |            | Γ          |          |  |          |          |  |     |               | 89       | J        |           |          |          |          |                |          |          |          |          |     |               | 139      | Ĺ                                      | L                 | 匚        | Ш        | ╚        | Ш               | Ц        | Ц                  | L                                      |
| Γ        | 40         |          |          | Π          | Γ          | Г          | Ī        | Γ  |          | Г        |  | ĺ   |               | 90       | П        |           |          |          |          |                |          |          | . •      |          |     | i             | 140      |  |                   |          | _        | Ш        |                 |          | Ц                  | L                                      |
| Γ        | 40         |          | Г        | Г          | Γ          | Ī          | Γ        | Γ  | 1        | Г        | Г  | 1   |               | 91       | ヿ        | П         | П        |          | Г        |                | П        |          | П        |          | Ì   |               | 141      |  |                   |          |          |          | Ш               |          | Ц                  | L                                      |
| Г        | 42         | -        | T        | Г          | Т          | Т          | 1        | ┢  | Г        | Г        | Ι.   | İ   |               | 92       | Ħ        |           |          |          | Г        |                |          |          |          |          |     |               | 142      | $\Box$                                 |                   |          |          |          |                 |          | Ц                  | L                                      |
| Г        | 43         | _        | Γ        | Г          | Г          | T          | Π        |  | Γ        | Г        | Π  | 1   | _             | 93       | ヿ        |           |          |          |          |                |          |          |          |          |     |               | 143      |  |                   |          |          |          | L               | Ц        | Ц                  | <u> </u>                               |
| Г        | 44         | Г        | Π        | Γ          | Γ          | Т          |          | Г  |          | Π        | T  | ĺ   |               | 94       | 寸        | T         |          |          |          |                |          |          |          |          |     |               | 144      |  |                   |          |          |          |                 | Ц        | Ц                  | L                                      |
|          | 45         |          | Г        | Г          | Γ          | T          | Τ        |  | Г        | Г        | Π  | 1   |               | 95       |          |           |          |          |          |                |          |          |          |          | - ( |               | 145      | $\Box$                                 |                   |          |          | $\Box$   | Ц               | Ц        | $\overline{\cdot}$ | Ļ                                      |
| Γ        | 46         |          |          | Γ          |            | Γ          |          |  |          |          |  | ] : |               | 96       |          |           |          |          |          |                |          |          |          |          | ļ   |               | 146      | L                                      | L                 | Ш        | ج:       | $\sqcup$ | $\sqcup$        | Н        | Н                  |  |
| B        | 47         |          | $\Gamma$ |            | $\Gamma$   |            |          |  |          |          | Γ  | ] ' |               | 97       |          |           |          |          |          |                |          |          |          |          | - 1 | _             | 147      | L                                      | 1                 | $\perp$  | Ц        | -        | لنظ             | $\vdash$ | Н                  | -                                      |
|          | \$9,       |          |          |            |            |            |          |  |          |          |  | ]   |               | 98       |          |           |          |          |          |                |          |          | Ш        |          | - 1 | _             | 148      | Ļ                                      | _                 | Щ        | $\vdash$ | $\vdash$ |                 | $\vdash$ | -                  | -                                      |
| L        | 49         |          |          | Ĺ          | Ľ          | Г          | L        |  | 匚        | L        | Ĺ  |     |               | 99       |          | ]         |          |          | _        | Ш              | Ш        |          | Ц        | Ш        | - 1 |               | 149      | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | <u> </u>          | <u> </u> | $\vdash$ | Ш        | ┝╼┤             | $\vdash$ |                    | ⊢                                      |
| 1        | 50         |          | 1        | l          |            | 1          | I        | ı  | ı        | ı        | l i  | 1   | 1 H           | 8        |          |           |          |          |          |                |          |          | 1        |          | 1   | i             | 15Q      | i                                      | 1_                | <u> </u> |          |          | ليا             | ل        | لے                 | ــــــــــــــــــــــــــــــــــــــ |

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